STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

M E M O R A N D U M

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TO: The Board of Oil, Gas and Mining

FROM: Thomas J. Suchoski, Reclamation Hydrologist

SUBJECT: Minerals Recovery Corporation
Sinbad Mine
Emery County, Utah
ACT/015/030

DATE: February 27, 1980

The Division staff has reviewed the Mining and Reclamation Plan submitted by Minerals Recovery Corporation for the Sinbad Mine and feels that the plan meets the requirements of the Utah Mined Land Reclamation Act. The Division seeks the Board's concurrence to grant tentative approval, the Board's approval on the form and amount of surety, and pending no adverse comment during the 30-day period and receipt of the surety amount, the Board's concurrence to grant final approval. An Executive Summary and Surety Estimate are attached for your review.

TJS/te

Attachment

E X E C U T I V E S U M M A R Y
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MINERAL RECOVERY CORPORATION

Sinbad Mine
ACT/015/030

Section 35,
Township 22 South, Range 10 East
Emery County, Utah

LOCATION:

This underground uranium mine site is located approximately 38 miles west-southwest of Green River, just south of Interstate 70 in Section 35, Township 22 South, Range 10 East, Emery County, Utah. This will be a new operation located in the head of Sinbad. Refer to the attached map for exact location.

SOILS AND GEOLOGY:

Mining will take place in the Moss Back member of the Chinlee formation. Soils in the area are shallow to moderate depth having a sandy clay texture and an alkaline pH. The soils are generally well drained, permeability is moderate to slow, runoff is rapid, and sediment production is high.

HYDROLOGY:

The normal average annual precipitation for this area is approximately 6 inches. Runoff from the surface facilities should not be a problem since the operation will be located in gently rolling topography with the surface facilities being situated on top of a small hill.

ECOLOGY:

Vegetation in the area is generally sparse. However, due to the abnormally wet year a diversity of species was noted during the field investigation. Species observed were ephedra, shadscale, sagebrush, rabbitbrush, Indian ricegrass, sand dropseed, galletagrass, Russian thistle, and several species of astragalus. The principal use of the area is rangeland, which would have a very low stocking capacity.

STRUCTURES AND FACILITIES:

The mine site will entail a surface disturbance of approximately 19 acres; of which 10 acres will be for support facilities, and 9 acres will be for access roads. The surface facilities will include a pad supporting a shop, dry, and office buidling; and a compressor; fuels, oil, and water tanks; a waste rock dump; an ore stockpile; and topsoil stockpile. In addition, there will be a single incline to the ore body, and the aforementioned access roads. Mining will be underground room and pillar and open stoping utilizing trackless vehicles for waste and ore transport out of the mine. The ore will be hauled by truck to the mill.

MINING AND RECLAMATION:

Minerals Recovery Corporation has committed to the following:

During Operations:

1. Mining will be conducted in a safe, orderly, and minerlike fashion and in such a manner as to minimize visual and environmental degradation.

2. Prior to the construction, available topsoil will be removed and stockpiled for redistribution on disturbed surface areas at the time of reclamation.

3. Mining will be underground room and pillar and open stoping, and will disturb approximately 19 acres of surface area for support facilities, including access roads.

4. Ore will be stockpiled at the mine site until it can be trucked to the mill.

After Operations:

1. All extraneous debris, scrap metal and wood, and unusable buidlings will be removed from the site.

2. The mine portal and vent holes will be sealed to prevent unauthorized entry.

3. The developmental wasterock stockpile will be recontoured to a stable slope and the surrounding area will be contoured to prevent water ponding.

4. Stockpiled topsoil will be respread over the disturbed surfaces to the extent possible and all areas will be scarified, broadcast seeded with a diverse seed mixture, and drag covered.

5. All disturbed areas will be monitored and reseeded if necessary.

IMPACTS:

The Reclamation Plan will eliminate safety hazards and reduce environmental and visual impacts.

SURETY ESTIMATE:

Reclamation surety for this operation was estimated to be $16,225.00 which includes 13% inflation for the 5 year proposed mine life and the following:

1. Clean-up and removal of structures, equipment, trash and debris.
2. Regrading and recontouring, respreading of topsoil, and construction of waterbars on the access road.
3. Soil preparation and seeding, of 19 acres, and reseeding if necessary.
4. Sealing one portal.
5. Removal of explosives and hazardous materials.
6. Supervision.

APPLICATION HISTORY:

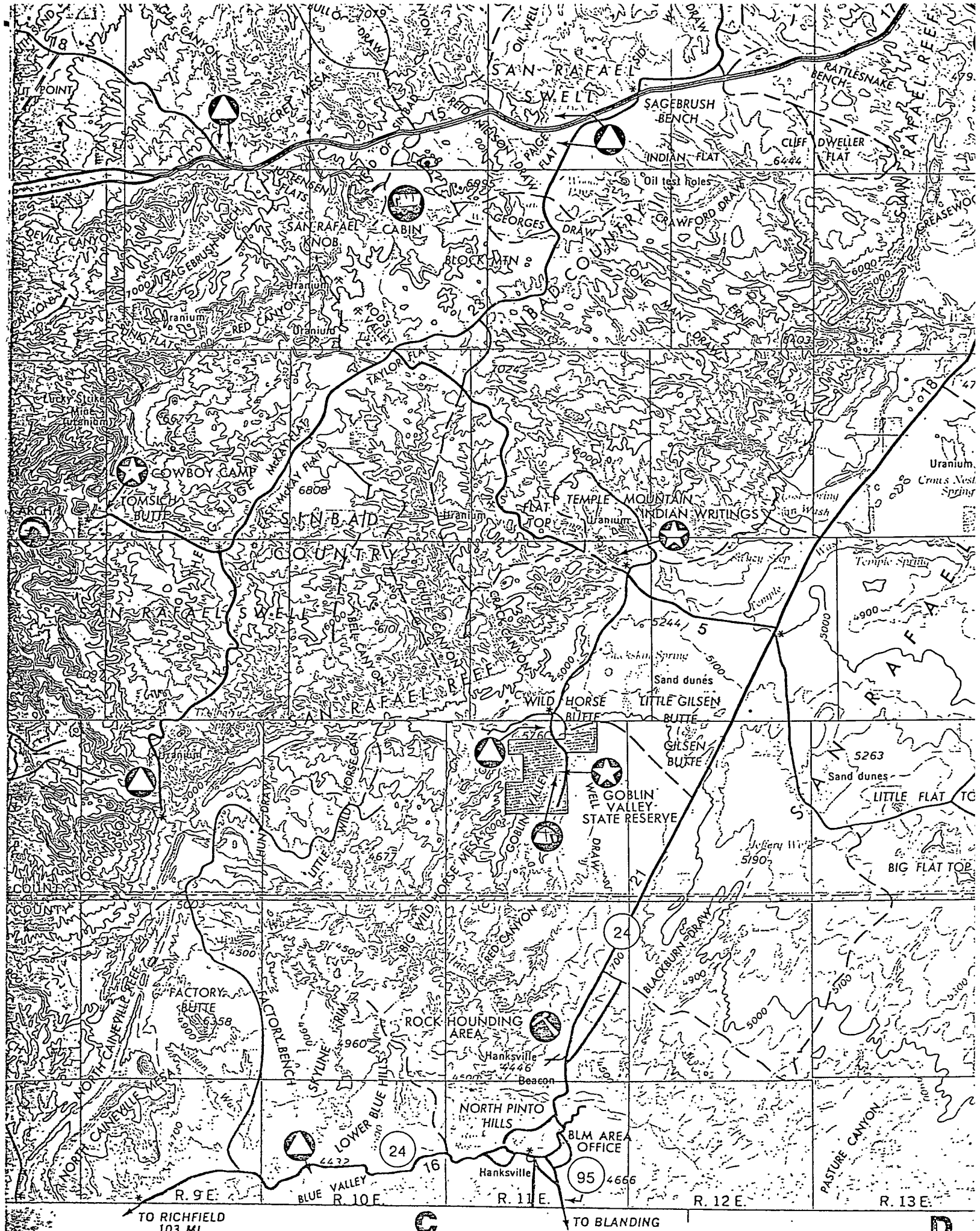
December 24, 1979	Division received application forms for the Sinbad Mine by Minerals Recovery Corp.
January 14, 1980	Division completed cursory review and prepared comments.
February 22, 1980	Division performed a field inspection of the proposed operation.
February 23, 1980	Division received response to comments of January 14, 1980.
February 25, 1980	Division completed review and prepared surety estimate and executive summary.

DIVISION OF OIL, GAS, AND MINING

BOND ESTIMATE

OPERATOR: Minerals Recovery Corporation
MINE NAME: Sinbad Mine
LOCATION: Sec. 25, T. 22S., R. 10E.
COUNTY: Emery
DATE: February 25, 1980

	Operation	Amount	Rate	Cost
A.	CLEAN-UP			
	1. Removal of structures & equipment.	Lump sum	$1,000.00	$ 1,000.00
	2. Removal of trash & debris.	Lump sum	$1,000.00	$ 1,000.00
	3. Leveling of ancillary facilities pads and access roads.	Included in B and C.		
B.	REGRADING & RECONTOURING			
	1. Earthwork including haulage and grading of spoils, waste and overburden.	10 hours	$85.00/hour	$ 850.00
	2. Recontouring of highwalls and excavations.			
	3. Spreading of soil or surficial materials.			
C.	STABILIZATION			
	1. Soil preparation, scarification, fertilization, etc.	14 acres	$75.00/acre	$ 1,050.00
	2. Seeding or planting.	14 acres	$125.00/ac	$ 1,750.00
	3. Construction of terraces, waterbars, etc.			
D.	LABOR			
	1. Supervision.			
	2. Labor exclusive of bulldozer time.	20 hours	$10.00/hour	$ 200.00
E.	SAFETY			
	1. Erection of fences, portal coverings, etc.	1 portal	$1,000.00	$ 1,000.00
	2. Removal or neutralization of explosive or hazardous materials.	Lump sum	$ 200.00	$ 200.00
F.	MONITORING			
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.	Reseeding 19 acres if nec.	$125.00/acre	$ 1,750.00
G.	OTHER		Subtotal	$ 8,800.00
	1. 13% inflation for 5 years.		Inflation	$ 7,425.00
			TOTAL	$16,225.00


SAN RAFAEL SWELL
SAGEBRUSH BENCH
INDIAN FLAT
CLIFF DWELLER FLAT
SAN RAFAEL REEF
RATTLESNAKE BENCH
Oil test holes
SAN RAFAEL CABIN
SAN RAFAEL KNOB
BLOCK MTN
GEORGES DRAW
CRAWFORD DRAW
SINBAD COUNTRY
Uranium
RED CANYON
TAYLOR FLAT
Lucky Strike Mine Uranium
COWBOY CAMP
TOMSICH BUTTE
McKAY FLAT
TEMPLE MOUNTAIN
INDIAN WRITINGS
FLAT TOP
Cross Nest Spring
Temple Spring
Sand dunes
WILD HORSE BUTTE
LITTLE GILSEN BUTTE
GILSEN BUTTE
GOBLIN VALLEY STATE RESERVE
GOBLIN VALLEY
WELL DRAW
LITTLE FLAT
BIG FLAT TOP
BLACKBURN DRAW
FACTORY BUTTE
FACTORY BENCH
SKYLINE DRIVE
ROCK HOUNDING AREA
Hanksville
Beacon
NORTH PINTO HILLS
LOWER BLUE HILLS
BLM AREA OFFICE
NORTH CAINEVILLE MESA
PASTURE CANYON
BLUE VALLEY
R. 9 E.
R. 10 E.
R. 11 E.
R. 12 E.
R. 13 E.
TO RICHFIELD 103 MI.
TO BLANDING 120 MI.
C
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